

A circular black ink stamp from the Canadian Intellectual Property Office (CIPO). The text "CIPO" is at the top, "JCCAB" is on the right, and "PATENT & TRADEMARK OFFICE" is at the bottom. In the center, the date "APR 27 2005" is stamped.

The diagram illustrates a mechanical assembly, possibly a valve or a pump, in a cross-sectional view. The main housing is labeled 1. At the top, there is a horizontal passage with a valve mechanism. This mechanism includes a central plug-like component 1 and a circular element 3. To the left of the plug is a component 4, and to the right is a component 5. Arrows indicate fluid flow: entering from the left through component 4, passing through the central plug area, and exiting to the right through component 5. Below the housing, a vertical shaft assembly is shown. The shaft has an outer sleeve 9 and an inner shaft 10. The shaft is surrounded by a fluid medium 6, indicated by horizontal arrows pointing towards the shaft. The shaft has a central passage 11. At the bottom of the shaft, there is a component 13. Arrows on the shaft indicate a downward flow in the central passage and an upward flow in the annular space between the shaft and the sleeve.

Fig. 1